

We claim:

1. A conjugate comprising:
 - (a) at least one therapeutic compound; and
 - 5 (b) one or more PEG polymers and/or oligomers, each joined to a bonding site on the therapeutic compound by a hydrolyzable bond, said PEG polymers and/or oligomers each:
 - (i) comprising a straight or branched PEG segment consisting of 1 to 25 polyethylene glycol units; and
 - 10 (ii) comprising a salt-forming moiety.
2. The conjugate of claim 1, wherein the conjugate is a prodrug.
3. The conjugate of claim 1, wherein the straight or branched PEG segment
15 consists of from 2 to 20 polyethylene glycol units.
4. The conjugate of claim 1, wherein the polyethylene glycol oligomer has a number of polyethylene glycol units selected from the group consisting of 1, 2, 3, 4, 5, 6, 7, 8, and 9.
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5. The conjugate of claim 1, wherein the salt-forming moiety is selected from the group consisting of: ammonium, carboxylate, phosphate, sulfate and mesylate.
6. The conjugate of claim 1, wherein the therapeutic compound is derivatized by
25 from 1 up to the maximum number of sites of attachment for the polyethylene glycol oligomer(s).
7. The conjugate of claim 1, which, when delivered via the oral route of administration to treat a mammalian subject having a disease condition responsive to the
30 therapeutic compound, provides a therapeutically effective dose of the therapeutic compound to the blood.
8. The conjugate of claim 1, wherein the therapeutic compound is a peptide.

9. The conjugate of claim 1, wherein the therapeutic compound is a protein.

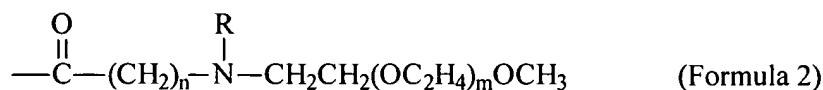
10. A pharmaceutical composition comprising:

- (a) a conjugate of claim 1; and
- (b) a pharmaceutically acceptable carrier.

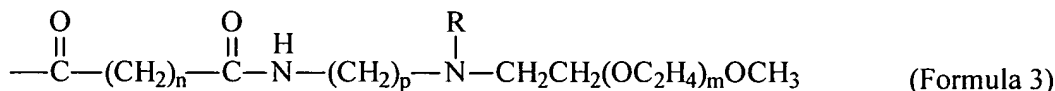
11. The pharmaceutical composition of claim 10, wherein the conjugate is a prodrug.

12. The pharmaceutical composition of claim 10 in a form suitable for oral administration.

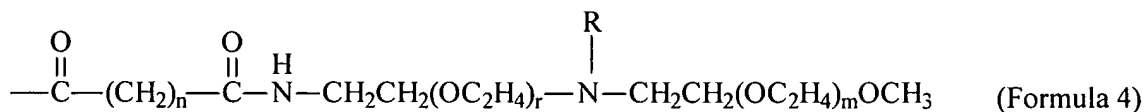
13. A conjugate comprising a therapeutic compound joined by hydrolysable bond(s) to one or more PEG oligomer(s) selected from the group consisting of:



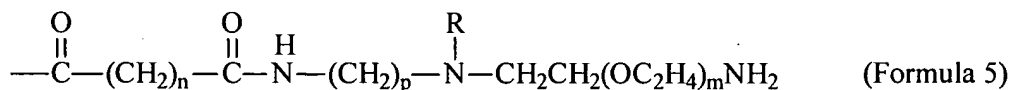
wherein n is from 1 to 7, m is from 2 to 25, and R is hydrogen or lower alkyl;



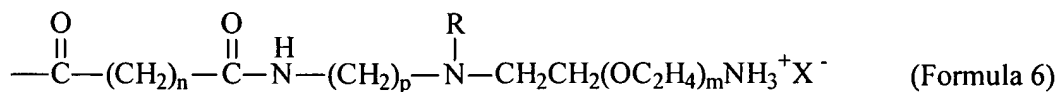
wherein n is from 1 to 6, p is from 2 to 8, m is from 2 to 25, and R is hydrogen or lower alkyl;



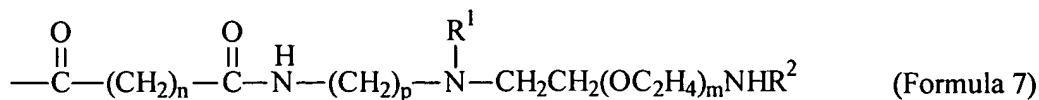
wherein n is from 1 to 6, m and r are each independently from 2 to 25, and R is hydrogen or lower alkyl;



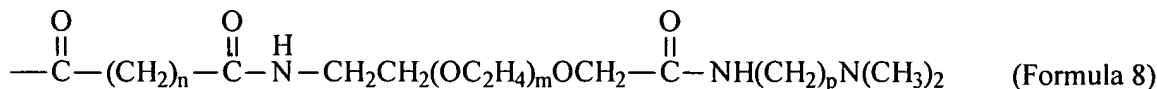
wherein n is from 1 to 6, p is from 2 to 8, m is from 2 to 25 and R is hydrogen or lower alkyl;



wherein n is from 1 to 6, p is from 2 to 8, m is from 2 to 25, R is hydrogen or lower alkyl, and X⁻ is a negative ion;

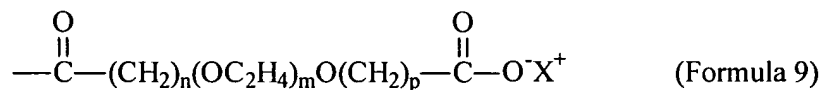


wherein n is from 1 to 6, p is from 2 to 8, m is from 2 to 25, and R¹ and R² are each independently hydrogen or lower alkyl;

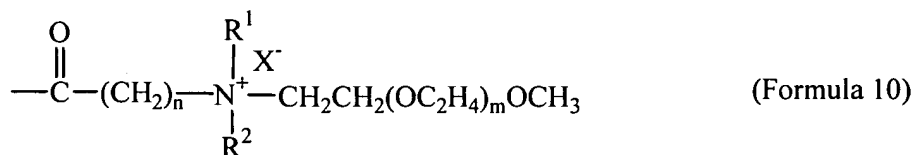


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wherein n is from 1 to 6, p is from 2 to 8 and m is from 2 to 25;

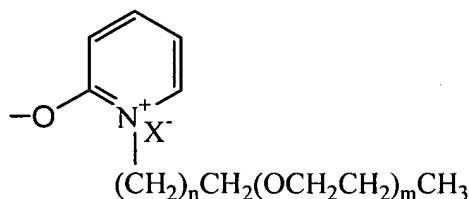


wherein n and p are each independently from 1 to 6, m is from 2 to 25 and X⁺ is a positive ion;



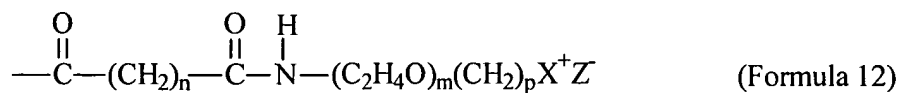
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wherein n is from 1 to 5, m is from 2 to 25, X⁻ is a negative ion, and wherein R¹ and R² are each independently hydrogen or lower alkyl;



(Formula 11)

15 wherein n is from 1 to 6, m is from 2 to 25 and X⁻ is a negative ion; and



wherein n is from 1 to 12, m is from 2 to 25, p is from 2 to 12, X⁺ is a positive ion and Z⁻ is a negative ion.

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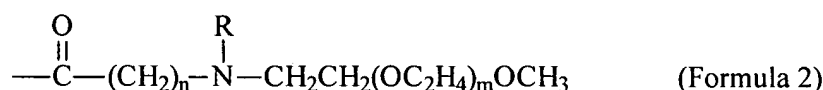
14. The conjugate of claim 13, wherein the conjugate is a prodrug.

15. The conjugate of claim 13, wherein the therapeutic compound is derivatized by from 1 up to the maximum number of sites of attachment for the polyethylene glycol oligomer(s).
- 5 16. The conjugate of claim 13, wherein the therapeutic compound is a peptide.
17. The conjugate of claim 13, wherein the therapeutic compound is a protein.
18. A pharmaceutical composition comprising:
- 10 (a) a conjugate of claim 13; and
- (b) a pharmaceutically acceptable carrier.
19. The pharmaceutical composition of claim 18, wherein the conjugate is a prodrug.
- 15 20. The pharmaceutical composition of claim 18 in a form suitable for oral administration.
21. A method of treating a mammalian subject having a disease condition responsive to a therapeutic compound, said method comprising administering to the subject
- 20 of an effective disease treating amount of a conjugate comprising:
- (a) at least one therapeutic compound; and
- (b) one or more PEG polymers and/or oligomers, each joined to a bonding site on the therapeutic compound by a hydrolyzable bond, said PEG polymers and/or oligomers each:
- 25 (i) comprising a straight or branched PEG segment consisting of 1 to 25 polyethylene glycol units; and
- (ii) comprising a salt-forming moiety.
22. The method of claim 21, wherein the conjugate is a prodrug.

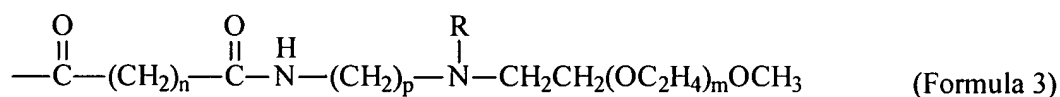
23. The conjugate of claim 21, wherein the therapeutic compound is a peptide.

24. The conjugate of claim 21, wherein the therapeutic compound is a protein.

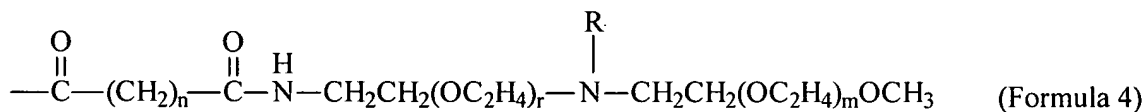
25. A method of treating a mammalian subject having a disease condition
 5 responsive to a therapeutic compound, said method comprising administering to the subject of an effective disease treating amount of a conjugate comprising the therapeutic compound joined by hydrolyzable bond(s) to one or more PEG oligomer(s) selected from the group consisting of:



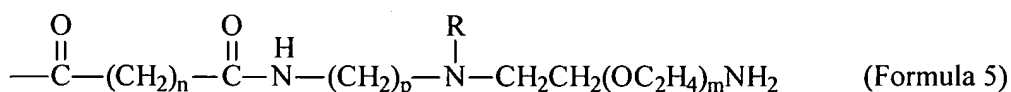
10 wherein n is from 1 to 7, m is from 2 to 25, and R is hydrogen or lower alkyl;



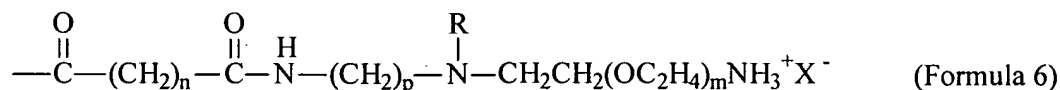
wherein n is from 1 to 6, p is from 2 to 8, m is from 2 to 25, and R is hydrogen or lower alkyl;



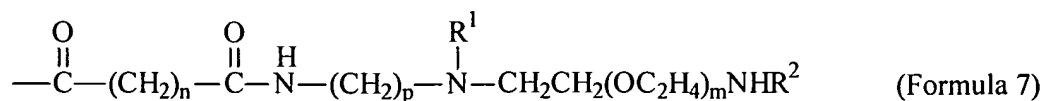
15 wherein n is from 1 to 6, m and r are each independently from 2 to 25, and R is hydrogen or lower alkyl;



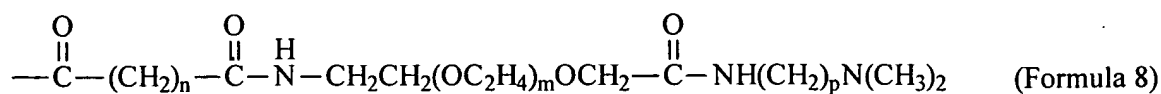
wherein n is from 1 to 6, p is from 2 to 8, m is from 2 to 25 and R is hydrogen or lower alkyl;



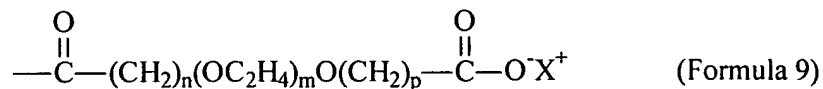
20 wherein n is from 1 to 6, p is from 2 to 8, m is from 2 to 25, R is hydrogen or lower alkyl, and X⁻ is a negative ion;



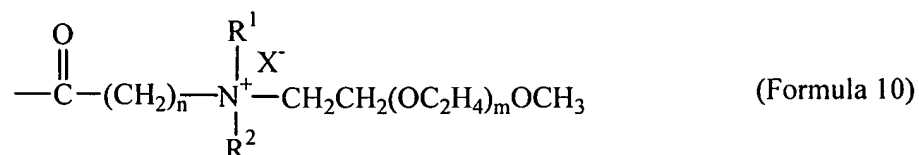
wherein n is from 1 to 6, p is from 2 to 8, m is from 2 to 25, and R¹ and R² are each independently hydrogen or lower alkyl;



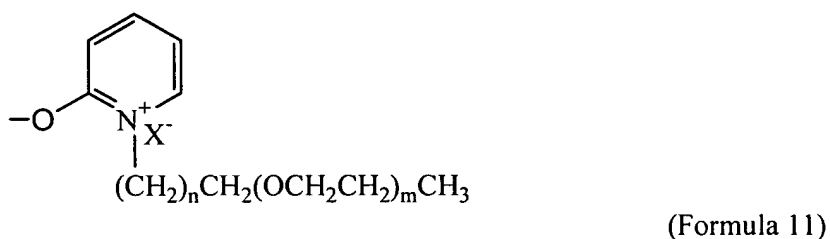
wherein n is from 1 to 6, p is from 2 to 8 and m is from 2 to 25;



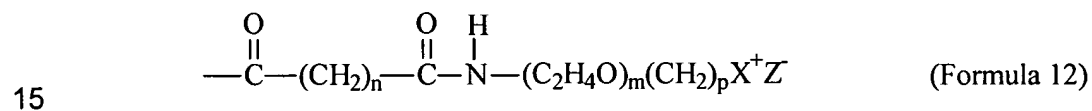
5 wherein n and p are each independently from 1 to 6, m is from 2 to 25 and X^+ is a positive ion;



wherein n is from 1 to 5, m is from 2 to 25, X⁻ is a negative ion, and wherein R¹ and R² are
10 each independently hydrogen or lower alkyl;



wherein n is from 1 to 6, m is from 2 to 25 and X⁻ is a negative ion; and



wherein n is from 1 to 12, m is from 2 to 25, p is from 2 to 12, X^+ is a positive ion and Z^- is a negative ion.

26. The method of claim 25, wherein the conjugate is a prodrug.

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27. The conjugate of claim 25, wherein the therapeutic compound is a peptide.

28. The conjugate of claim 25, wherein the therapeutic compound is a protein.